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RAW SEQUENCE LISTING

DATE: 07/14/1999

PATENT APPLICATION US/09/272,809

TIME: 11:07:08

Input Set: I272809.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: Lagarias, John C.
2 <120> TITLE OF INVENTION: Phytofluors as fluorescent labels
3 <130> FILE REFERENCE: 2500.118US0
4 <140> CURRENT APPLICATION NUMBER: US/09/272,809
5 <141> CURRENT FILING DATE: 1998-03-19
6 <160> NUMBER OF SEQ ID NOS: 24
7 <170> SOFTWARE: PatentIn Ver. 2.0
8 <210> SEQ ID NO 1
9 <211> LENGTH: 748
10 <212> TYPE: PRT
11 <213> ORGANISM: Unknown
12 <220> FEATURE:
13 <223> OTHER INFORMATION: Description of Unknown Organism: Locus SLR0473 =
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19 20 25 30
20 Val Val Leu Gln Glu Pro Asp Leu Thr Ile Ser Gln Ile Ser Ala Asn
21 35 40 45
22 Cys Thr Gly Ile Leu Gly Arg Ser Pro Glu Asp Leu Leu Gly Arg Thr
23 50 55 60
24 Leu Gly Glu Val Phe Asp Ser Phe Gln Ile Asp Pro Ile Gln Ser Arg
25 65 70 75 80
26 Leu Thr Ala Gly Gln Ile Ser Ser Leu Asn Pro Ser Lys Leu Trp Ala
27 85 90 95
28 Arg Val Met Gly Asp Asp Phe Val Ile Phe Asp Gly Val Phe His Arg
29 100 105 110
30 Asn Ser Asp Gly Leu Leu Val Cys Glu Leu Glu Pro Ala Tyr Thr Ser
31 115 120 125
32 Asp Asn Leu Pro Phe Leu Gly Phe Tyr His Met Ala Asn Ala Ala Leu
33 130 135 140
34 Asn Arg Leu Arg Gln Gln Ala Asn Leu Arg Asp Phe Tyr Asp Val Ile
35 145 150 155 160
36 Val Glu Glu Val Arg Arg Met Thr Gly Phe Asp Arg Val Met Leu Tyr
37 165 170 175
38 Arg Phe Asp Glu Asn Asn His Gly Asp Val Ile Ala Glu Asp Lys Arg
39 180 185 190
40 Asp Asp Met Glu Pro Tyr Leu Gly Leu His Tyr Pro Glu Ser Asp Ile
41 195 200 205
42 Pro Gln Pro Ala Arg Arg Leu Phe Ile His Asn Pro Ile Arg Val Ile
43 210 215 220
44 Pro Asp Val Tyr Gly Val Ala Val Pro Leu Thr Pro Ala Val Asn Pro

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49		260	265	270
50	Leu Thr Ile Ser Leu Ile Lys Asp Gly His Leu Trp Gly Leu Ile Ala			
51		275	280	285
52	Cys His His Gln Thr Pro Lys Val Ile Pro Phe Glu Leu Arg Lys Ala			
53		290	295	300
54	Cys Glu Phe Phe Gly Arg Val Val Phe Ser Asn Ile Ser Ala Gln Glu			
55	305	310	315	320
56	Asp Thr Glu Thr Phe Asp Tyr Arg Val Gln Leu Ala Glu His Glu Ala			
57		325	330	335
58	Val Leu Leu Asp Lys Met Thr Thr Ala Ala Asp Phe Val Glu Gly Leu			
59		340	345	350
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62	Ala Ile Cys Phe Gly Glu Lys Leu Ile Leu Val Gly Glu Thr Pro Asp			
63		370	375	380
64	Glu Lys Ala Val Gln Tyr Leu Leu Gln Trp Leu Glu Asn Arg Glu Val			
65	385	390	395	400
66	Gln Asp Val Phe Phe Thr Ser Ser Leu Ser Gln Ile Tyr Pro Asp Ala			
67		405	410	415
68	Val Asn Phe Lys Ser Val Ala Ser Gly Leu Leu Ala Ile Pro Ile Ala			
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85	545	550	555	560
86	Ala Leu Asp Glu Asp Ala Lys Asp Phe Ile Asp Phe Ala Val Thr Gly			
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88	Val Ser Leu Met Gln Thr Leu Ile Asp Asp Ile Leu Thr Tyr Ala Lys			
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90	Val Asp Thr Gln Tyr Ala Gln Leu Thr Phe Thr Asp Val Gln Glu Val			
91		595	600	605
92	Val Asp Lys Ala Leu Ala Asn Leu Lys Gln Arg Ile Glu Glu Ser Gly			
93		610	615	620
94	Ala Glu Ile Glu Val Gly Ser Met Pro Ala Val Met Ala Asp Gln Ile			

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95      625      630      635      640
96      Gln Leu Met Gln Val Phe Gln Asn Leu Ile Ala Asn Gly Ile Lys Phe
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99              660      665      670
100     Asp Ala Trp Val Phe Ala Val Gln Asp Asn Gly Ile Gly Ile Asp Pro
101              675      680      685
102     Gln Phe Phe Glu Arg Ile Phe Val Ile Phe Gln Arg Leu His Thr Arg
103              690      695      700
104     Asp Glu Tyr Lys Gly Thr Gly Met Gly Leu Ala Ile Cys Lys Lys Ile
105     705      710      715      720
106     Ile Glu Gly His Gln Gly Gln Ile Trp Leu Glu Ser Asn Pro Gly Glu
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110 <210> SEQ ID NO 2

111 <211> LENGTH: 1276

112 <212> TYPE: PRT

113 <213> ORGANISM: Unknown

114 <220> FEATURE:

115 <223> OTHER INFORMATION: Description of Unknown Organism:cph2 Locus SLL0821

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120             20          25          30
121     Glu Glu Ala Arg Ile Phe Leu Gly Val Asp Arg Val Lys Ile Tyr Lys
122             35          40          45
123     Phe Ala Ser Asp Gly Ser Gly Glu Val Leu Ala Glu Ala Val Asn Arg
124             50          55          60
125     Ala Ala Leu Pro Ser Leu Leu Gly Leu His Phe Pro Val Glu Asp Ile
126             65          70          75          80
127     Pro Pro Gln Ala Arg Glu Glu Leu Gly Asn Gln Arg Lys Met Ile Ala
128             85          90          95
129     Val Asp Val Ala His Arg Arg Lys Lys Ser His Glu Leu Ser Gly Arg
130             100         105         110
131     Ile Ser Pro Thr Glu His Ser Asn Gly His Tyr Thr Thr Val Asp Ser
132             115         120         125
133     Cys His Ile Gln Tyr Leu Leu Ala Met Gly Val Leu Ser Ser Leu Thr
134             130         135         140
135     Val Pro Val Met Gln Asp Gln Gln Leu Trp Gly Ile Met Ala Val His
136             145         150         155         160
137     His Ser Lys Pro Arg Arg Phe Thr Glu Gln Glu Trp Glu Thr Met Ala
138             165         170         175
139     Leu Leu Ser Lys Glu Val Ser Leu Ala Ile Thr Gln Ser Gln Leu Ser
140             180         185         190
141     Arg Gln Val His Gln Gln Gln Val Gln Glu Ala Leu Val Gln Arg Leu
142             195         200         205
143     Glu Thr Thr Val Ala Gln Tyr Gly Asp Arg Pro Glu Thr Trp Gln Tyr
144             210         215         220

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148					245					250					255	
149	Asn	Leu	Arg	Phe	Asp	Trp	Gly	Asn	Trp	Leu	Glu	Thr	Ser	Leu	Trp	Gln
150				260					265					270		
151	Glu	Leu	Met	Arg	Gly	Gln	Pro	Ser	Ala	Ala	Met	Glu	Pro	Met	Ala	Ala
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153	Val	Gln	Ser	Thr	Trp	Glu	Lys	Pro	Arg	Pro	Phe	Thr	Ser	Val	Ala	Pro
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155	Leu	Pro	Pro	Thr	Asn	Cys	Val	Pro	His	Gly	Tyr	Thr	Leu	Gly	Glu	Leu
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157	Glu	Gln	Arg	Ser	Asp	Trp	Ile	Ala	Pro	Pro	Glu	Ser	Leu	Ser	Ala	Glu
158					325					330					335	
159	Asn	Phe	Gln	Ser	Phe	Leu	Ile	Val	Pro	Leu	Ala	Ala	Asp	Gln	Gln	Trp
160				340					345					350		
161	Val	Gly	Ser	Leu	Ile	Leu	Leu	Arg	Lys	Glu	Lys	Ser	Leu	Val	Lys	His
162		355						360					365			
163	Trp	Ala	Gly	Lys	Arg	Gly	Ile	Asp	Arg	Arg	Asn	Ile	Leu	Pro	Arg	Leu
164		370					375					380				
165	Ser	Phe	Glu	Ala	Trp	Glu	Glu	Thr	Gln	Lys	Leu	Val	Pro	Thr	Trp	Asn
166	385					390				395					400	
167	Arg	Ser	Glu	Arg	Lys	Leu	Ala	Gln	Val	Ala	Ser	Thr	Gln	Leu	Tyr	Met
168					405					410					415	
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170			420					425					430			
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172		435						440					445			
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186	545					550				555					560	
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189	Phe	Ala	Glu	Ile	Ala	Leu	Thr	Arg	Ala	Lys	Cys	Gln	Gly	Lys	Asn	Thr
190			580						585					590		
191	Tyr	Gln	Phe	Tyr	Arg	Pro	Gln	Asp	Ser	Ala	Pro	Met	Leu	Asp	Arg	Leu
192		595					600						605			
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194		610					615					620				

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197	Val Glu Ala Leu Val Arg Trp Gln His Pro Arg Leu Gly Gln Val Ala
198	645 650 655
199	Pro Asp Val Phe Ile Pro Leu Ala Glu Glu Leu Gly Leu Ile Asn His
200	660 665 670
201	Leu Gly Gln Trp Val Leu Glu Thr Ala Cys Ala Thr His Gln His Phe
202	675 680 685
203	Phe Arg Glu Thr Gly Arg Arg Leu Arg Met Ala Val Asn Ile Ser Ala
204	690 695 700
205	Arg Gln Phe Gln Asp Glu Lys Trp Leu Asn Ser Val Leu Glu Cys Leu
206	705 710 715 720
207	Lys Arg Thr Gly Met Pro Pro Glu Asp Leu Glu Leu Glu Ile Thr Glu
208	725 730 735
209	Ser Leu Met Met Glu Asp Ile Lys Gly Thr Val Val Leu Leu His Arg
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211	Leu Arg Glu Glu Gly Val Gln Val Ala Ile Asp Asp Phe Gly Thr Gly
212	755 760 765
213	Tyr Ser Ser Leu Ser Ile Leu Lys Gln Leu Pro Ile His Arg Leu Lys
214	770 775 780
215	Ile Asp Lys Ser Phe Val Asn Asp Leu Leu Asn Glu Gly Ala Asp Thr
216	785 790 795 800
217	Ala Ile Ile Gln Tyr Val Ile Asp Leu Ala Asn Gly Leu Asn Leu Glu
218	805 810 815
219	Thr Val Ala Glu Gly Ile Glu Ser Glu Ala Gln Leu Gln Arg Leu Gln
220	820 825 830
221	Lys Met Gly Cys His Leu Gly Gln Gly Tyr Phe Leu Thr Arg Pro Leu
222	835 840 845
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232	915 920 925
233	Lys Ile Ala Asn Lys Ile Arg Ala Ser Leu Asn Ile Asn Asp Ile Leu
234	930 935 940
235	Tyr Ser Thr Val Thr Glu Val Arg Gln Phe Leu Asn Thr Asp Arg Val
236	945 950 955 960
237	Val Leu Phe Lys Phe Asn Ser Gln Trp Ser Gly Gln Val Val Thr Glu
238	965 970 975
239	Ser His Asn Asp Phe Cys Arg Ser Ile Ile Asn Asp Glu Ile Asp Asp
240	980 985 990
241	Pro Cys Phe Lys Gly His Tyr Leu Arg Leu Tyr Arg Glu Gly Arg Val
242	995 1000 1005
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VERIFICATION SUMMARY
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